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## ABSTRACT OF THE DISCLOSURE

vacuum low-temperature distilled pure water dispenser includes a water-supply tank communicating with a reaction chamber via a water supply line, a pure water storage tank communicably located above the reaction chamber, an actuating pump communicably located below the reaction chamber, and refrigerating system having pipe lines extended between the reaction chamber and the pure water storage tank. When the actuating pump is actuated, a vacuum is produced in the reaction chamber to suck water in the water-supply tank into the reaction chamber, at where the sucked water is heated and vaporized by heat provided by a compressor of the refrigerating system, so that impurities, organic and inorganic matters, bacteria, and viruses in the water are separated therefrom through vacuum low-temperature distillation. When the actuating pump keeps pumping, the distilled water is sent from the reaction chamber into the pure water storage tank.